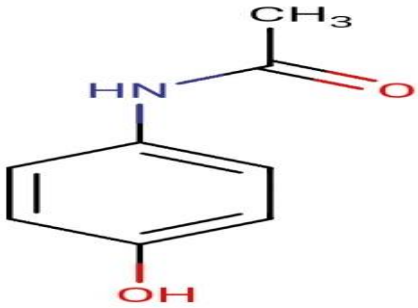
Acetaminophen

Acetaminophen is an analgesic drug.

It is also called N-acetyl para-aminophenol (APAP) or paracetamol, is one of the most widely used over-the-counter analgesic



Structure of the drug:

Use:

used alone or in combination with opioids for pain management, and as an antipyretic agent.

◐-Acetaminophen is hydrophilic drug and it is a weak acid.

Protein binding:

The binding of acetaminophen to plasma proteins is low (ranging from 10% to 25%), when given at therapeutic doses

Metabolism:

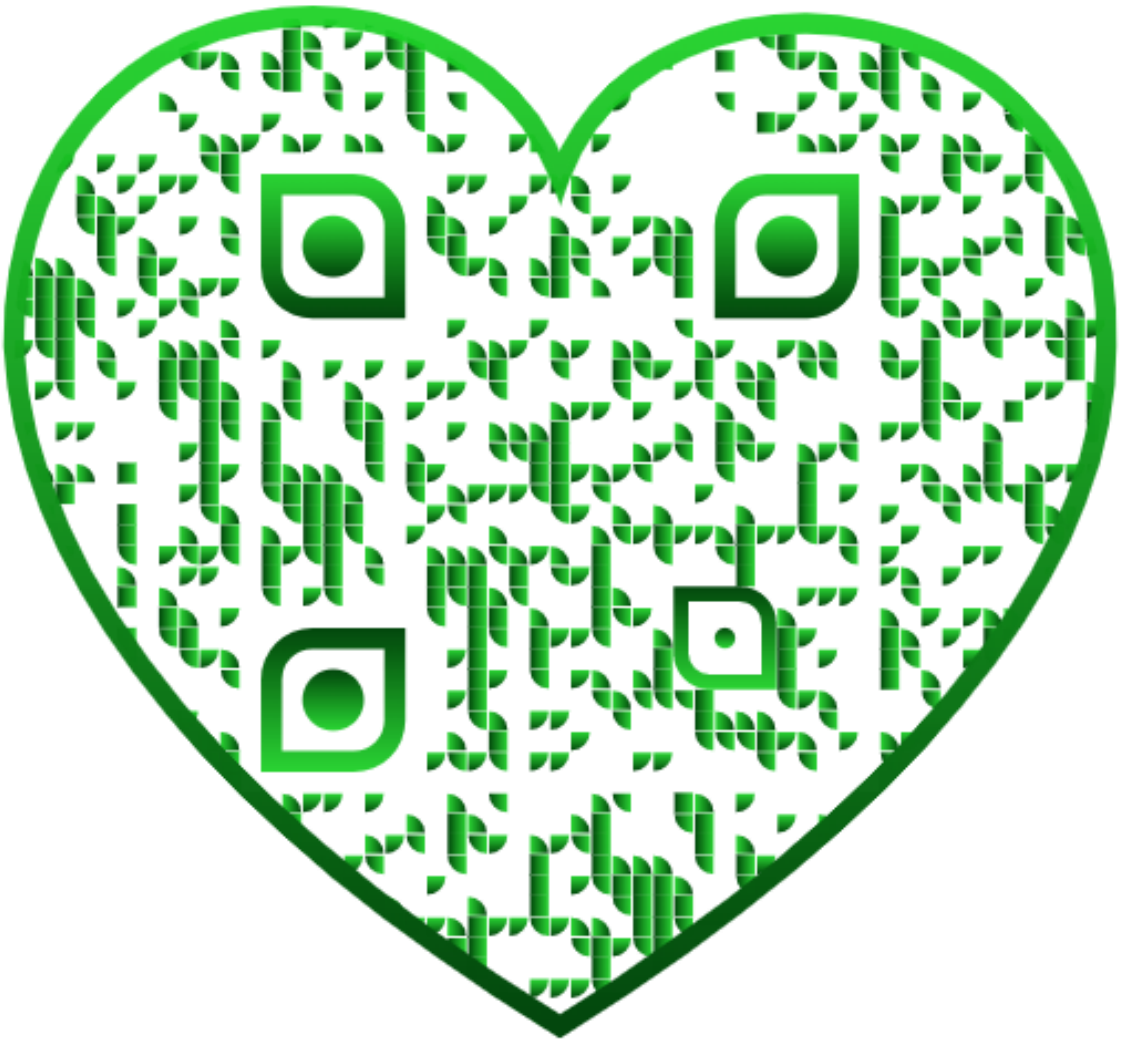
Acetaminophen is mainly metabolized in the liver by first-order kinetics and its metabolism of comprised of 3 pathways: conjugation with glucuronide, conjugation with sulfate, and oxidation through the cytochrome P450 enzyme pathway.

Mechanism of action:

its exact mechanism of action remains unclear, it is historically categorized along with NSAIDs because it inhibits the cyclooxygenase (COX) pathways.

Like NSAIDs, acetaminophen has analgesic and antipyretic properties. However, studies have shown that acetaminophen lacks peripheral anti-inflammatory properties.

The absorption of oral acetaminophen occurs primarily along the small intestine by passive diffusion.



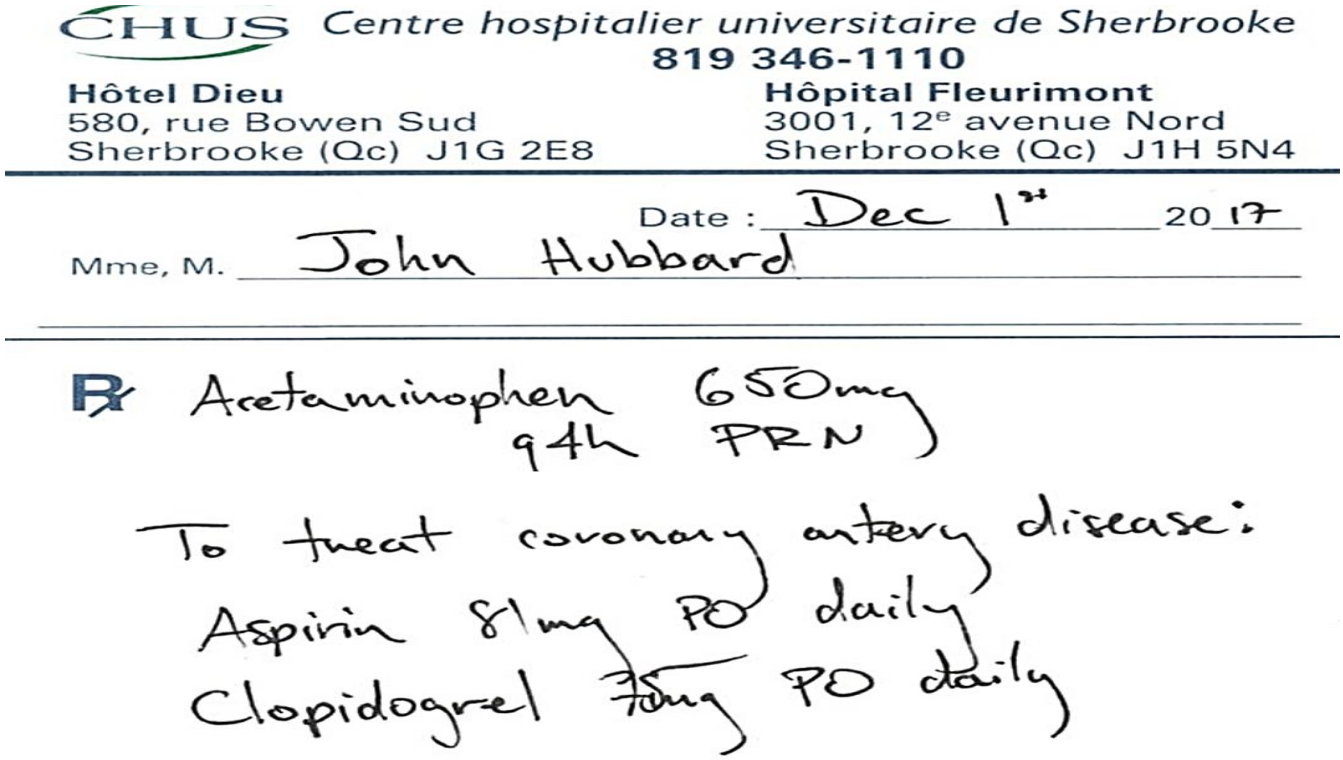
Dosage forms:

oral capsule (325 mg; 500 mg)
effervescent (650 mg)
oral liquid (160 mg/5 mL; 325 mg/10.15 mL; 500 mg/15 mL; 650 mg/20.3 mL)
oral powder (500 mg)
oral suspension (160 mg/5 mL; 650 mg/20.3 mL) oral tablet (325 mg; 500 mg)
oral tablet, chewable (160 mg; 80 mg)
oral tablet, disintegrating (160 mg

- **Rectal: Acetaminophen is available as a rectal suppository for both adult and pediatric patient populations as: 80mg, 120mg, 325mg, 650mg.**
- **Intravenous: Acetaminophen also comes as an IV infusion for administration as: 500mg/50mL & 1000mg/100mL**

Warning: You should not use this medication if you have severe liver disease

prescription: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Date : Dec 1st 2017

Mme, M. John Hubbard

℞ Acetaminophen 650mg
q4h PRN

To treat coronary artery disease:
Aspirin 81mg PO daily
Clopidogrel 75mg PO daily

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تحت أشراف البروفسور / محمود مهيوب البريهي